

## GLOW PRO G 101 PU PRIMER

POLYURETHANE, TRANSPARENT, TWO COMPONENT PRIMER

### GENERAL CHARACTERISTICS

**GLOW Pro modified PU PRIMER G 101** is polyurethane-based, anti-dust, transparent , two-component resin, which is used as an adhesive component between the sub-floor and **the GLOW Pro coating G 102** which consists of GLOW Pro granules and special, modified, reinforced resins.

- Ideal for old and new surfaces.
- Eliminates dust and decay from old & new floorings, reinforcing their durability.
- Penetrates in depth, protects and hardens old absorbent cement surfaces.

### TECHNICAL DATA

Basis:	two-component polyurethane resin
Appearance:	liquid
Viscosity:	180 ± 3 mPa•s at 23°C
Density:	1,075 ± 0,001 gr/cm <sup>3</sup>
Mixing proportion (A:B):	75:25 by weight
Final strength:	after 7 days at 23°C
Walkability:	after 2 days
Adhesive strength:	>3 N/mm <sup>2</sup> (breaking of concrete)
Colors:	Transparent
Temperature for the application and drying of the material:	12 – 35°C

## **PREPARATION-APPLICATION**

**Applied only on dry surfaces. Protected from arising humidity and free of materials that might prevent bonding e.g. dust, loose particles, grease etc.** The success in the application depends on the right preparation of the underlay and use of the material.

Good mixing of components A (resin) & B (hardener) packed into separate containers in fixed weight proportions. Mixing should be performed using a low revolution mixer (300-600 rpm) for 1-2 min. Stirring of the mixture should be performed thoroughly near the sides and bottom of the container in order to achieve uniform dispersion of the hardener.

- Grinding of the surface with a mosaic machine, or sandblast and rotor machine in case of vertical surfaces.
- **Good, dry** cleaning of the surface from dust and residues with vacuum cleaner and squeegees.
- Priming of the surface with **GLOW Pro modified PU PRIMER G 101** in one layer.  
**Consumption:** 200-250 gr/m<sup>2</sup>, depending on the absorption of the underlay.

The last layer is applied with **GLOW Pro modified PU PRIMER G 101**, until the surface is saturated and a film is created. If mat spots appear, then another layer is necessary until the surface is shiny. The next layer follows the other after the previous dries, within 6-12 hours depending on the ambient temperature and not more than 24 hours. The number of layers vary from one surface to another depending on the absorbency.

## **CONSUMPTION**

200-250 gr/m<sup>2</sup>

## **APPLICATION TOOLS**

Nappy rolls, brushes. Tools should be cleaned with **POLYURETHANE SOLVENT** immediately after use.

## **PACKING**

Supplied in drums of 15 Kg and barrels of 200-220 kg.

## **STORAGE**

Six months in unopened containers in dry places with minimum temperature 5 °C and maximum temperature 28 °C.

## **REMARKS**

- Working time of **GLOW Pro modified PU PRIMER G 101** decreases when ambient temperature rises.
- It **cannot be applied in thickness for closing cracks or holes.**
- The usage of rotor machine must precede the application of **GLOW Pro modified PU PRIMER G 101** for the creation of pores and the right penetration.
- In case old floors are going to be laid or a long period of time interferes between successive layers, the surface must be thoroughly cleaned and ground prior to application of a new layer.
- Our recommendation is that the asphalt subfloor should be applied on well compacted 150 mm road base subfloor and asphalt should be laid in one layer( not 2) in 6 to 8 cm with fine and coarse aggregates (up to 15mm granulometry) like the kind of asphalt used in road construction.  
So, new road-grade asphalt will have to be laid (minimum 60mm) in one layer containing coarse aggregates and then mature for 30 days at least, before any application takes place on top of the asphalt to avoid bubbles on the final layer of the sport or rubber floorings.

After hardening **GLOW Pro modified PU PRIMER G 101** is completely safe for health.

## **CAUTION**

The application must take place in well-aired places using protective gloves. Skin or eye contact must be avoided, otherwise wash carefully with soap and water.

**For more information consult the material safety data sheet.**

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The information given here is true, represents our best knowledge and is based not only on laboratory work, but also on field experience. However, because of numerous factors affecting results we offer this information without any guarantee and no patent liability is assumed. For additional information or questions, contact the technical department of THE GLOW.PRO COMPANY.

## GLOW PRO PORE FILLER G 109

### GENERAL CHARACTERISTICS

**GLOW PRO PORE FILLER G 109** is a sealing, sandproof and waterproof modified repair sealant and filler material with high elasticity.

**GLOW PRO PORE FILLER G 109** resists against sand penetration/ depositing, humidity, water and most of the chemicals. It has very good filling capacity and thixotropic properties. It has low fluidity feature with its filler structure. It can be easily applied. It provides strong and very elastic filling after the reaction.

### TECHNICAL DATA

Mixing Ratio	9 : 1 (A : B)
Density of mixture (20°C)	app. 1,52±0.1 gr/cm³
Density of Comp. A (20°C)	app. 1,63±0.1 gr/cm³
Density of Comp. B (20°C)	app. 1,22±0.05 gr/cm³
Pot-life (23°C)	30-40 min
Application temperature	Min 5°C
Curing (20°C and %60 relative humidity)	After 24 hours it can be sanded
Color and odor	Crepe, red, green

### INGREDIENTS

<u>MATERIAL NAME</u>	<u>EC No</u>	<u>CAS No</u>
Polyol Mix	232-293-8	8001-79-4
Filler Mix	231-784-4	7727-43-7
Anti settling	212-828-1	872-50-4
Miscellaneous	Nonhazardous	-
Ingredients		

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## **PREPARATION-APPLICATION**

It is used to fill pores, cracks, dilation spaces, holes to smooth and repair the floor and other filling applications.

The resin component should be thoroughly stirred to incorporate any slight separation, whilst continuing stirring the contents of the hardener container should be added. Continue stirring until a homogeneous mix is obtained. The mixed material must be used within 30-40 minutes of mixing at 20°C. The surface must be dry and clean. **GLOW PRO PORE FILLER G 109** can be applied by trowel.

## **CONSUMPTION**

1,4-1,5 kg is used per m<sup>2</sup> for 1 mm thickness (depends on the surface absorbance and SBR granulation).

## **PACKING**

Barrels 280kg.

## **STORAGE**

1 year under normal room conditions-25°C.

## **REMARKS**

Substrate must be dry, clean, and free from dust, grease and oil. Application must be done between 10°C - 40 °C.

**GLOW PRO PORE FILLER G 109** has to be thoroughly sanded before the application of the top aliphatic coat **GLOW PRO COATING G 103** in order to provide a smooth clean surface for the aliphatic top coat that will follow right after the sanding process is completed.

By no means **GLOW PRO PORE FILLER G 109** should be applied in thickness. The material is a pore filler and not a levelling material, and so it should be applied as pore filler (thin dragged layer over the substrate). In case it is applied in some areas in thickness, those areas should be well ground with sanding machine before subsequent layers in order to avoid cracking of the material due to oversized thickness.

Attention should be given also to possible trapped humidity in the pore filler, which could lead to cracks in the material or bubbles of the material.

Moreover, it is important that the mixing ratio between PU BINDER to SBR or EPDM rubber in the underlying cushion mixtures is kept as stable as possible in order to obtain similar flexibility of the cushion throughout the surface. Otherwise, areas with different flexibilities might occur. Same can happen if the mixing is not properly done in the paving machine or in the barrels/drums to secure uniformity throughout.

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## **CAUTION**

Harmful if swallowed. Seek immediately medical attention. Rubber gloves and safety glasses with side guards should be worn.

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## SEALING COATING G 103

POLYURETHANE , TWO COMPONENT SEALING COATING WITH GLOW ELEMENTS

### GENERAL CHARATERISTICS

**GLOW Pro Sealing coating G 103** is polyurethane-based, transparent, two-component resin, which helps the system to glow at night in the dark or even in lighted areas with special lamps. It is used for sealing the GLOW Pro coating G 102 which consists of GLOW Pro sand and a special, modified, reinforced resin.

### TECNHICAL DATA

Basis:	Polyurethane, two-component resin
Appearance:	liquid
Viscosity:	180 ± 3 mPa•s at 23°C
Density:	1,075 ± 0,001 gr/cm <sup>3</sup>
Mixing proportion (A:B):	75:25 by weight
Final strength:	after 7 days at 23°C
Walkability:	after 2 days
Adhesive strength:	>3 N/mm <sup>2</sup> (breaking of concrete)
Colors:	Transparent
Temperature for the application and drying of the material:	12 – 35°C

### PREPARATION-APPLICATION

**Applied only on dry surfaces. Protected from arising humidity and free of materials that might prevent bonding e.g. dust, loose particles, grease etc.** The success in the application depends on the right preparation of the underlay and use of the material.

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Good mixing of components A (resin) & B (hardener) packed into separate containers in fixed weight proportions. Mixing should be performed using a low revolution mixer (300-600 rpm) for 1-2 min. Stirring of the mixture should be performed thoroughly near the sides and bottom of the container in order to achieve uniform dispersion of the hardener.

- Grinding of the surface with a mosaic machine, or sandblast and rotor machine in case of vertical surfaces.
- **Good, dry** cleaning of the surface from dust and residues with vacuum cleaner and squeegees.

The last layer is applied with **GLOW Pro Sealing coating G 103**, until the surface is saturated and a film is created. If mat spots appear, then another layer is necessary until the surface is shiny. The next layer follows the other after the previous dries, within 6-12 hours depending on the ambient temperature and not more than 24 hours. The number of layers vary from one surface to another depending on the absorbency.

## **CONSUMPTION**

400 gr/m<sup>2</sup>

## **APPLICATION TOOLS**

Nappy rolls, brushes. Tools should be cleaned with **POLYURETHANE SOLVENT** immediately after use.

## **PACKING**

Supplied in packages of 5kg and 15 kg (two drums). Components A and B have the fixed weight proportion.

## **STORAGE**

Six months in unopened containers in dry places with minimum temperature 5°C and maximum temperature 28°C.



## **REMARKS**

- Working time of **GLOW Pro Sealing coating G 103** decreases when ambient temperature rises.
- It **cannot be applied in thickness for closing cracks or holes**.
- The usage of rotor machine must precede the application of **GLOW Pro Sealing coating G 103** for the creation of pores and the right penetration.
- In case old floors are going to be laid or a long period of time interferes between successive layers, the surface must be thoroughly cleaned and ground prior to application of a new layer.
- Our recommendation is that the asphalt subfloor should be applied on well compacted 150 mm road base subfloor and asphalt should be laid in one layer( not 2) in 6 to 8 cm with fine and coarse aggregates (up to 15mm granulometry) like the kind of asphalt used in road construction.  
So, new road-grade asphalt will have to be laid (minimum 60mm) in one layer containing coarse aggregates and then mature for 30 days at least, before any application takes place on top of the asphalt to avoid bubbles on the final layer of the sport or rubber floorings.

After hardening **GLOW Pro Sealing coating G 103** is completely safe for health.

## **CAUTION**

The application must take place in well-aired places using protective gloves. Skin or eye contact must be avoided, otherwise wash carefully with soap and water.

**For more information consult the material safety data sheet.**

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## GLOW ELEMENTS

### Photoluminescent pigment

#### CHEMICAL PROPERTIES

Composition	Strontium Aluminate doped with Europium Dysprosium oxides
Insoluble in	Organic solvents, water
Decomposition by	Strong acids, strong alkalines
Fastness to heat	-40~850C° or 1100C not more than 10minutes

#### PHYSICAL PROPERTIES

Appearance	Yellowish crystal powder
Specific gravity	3.6g/cm <sup>3</sup>
Bulk Density	1.21g/cm <sup>3</sup>
Average Particle Size	400~800um

#### LUMINESCENT PROPERTIES

Excitation	all visible light and UV light (200~450nm better)
Glow Color	Yellow green (Emitting light Wavelength Peak: 520±2nm)
Afterglow Intensity after	10min >1100 mcd/m <sup>2</sup> 60min >160 mcd/m <sup>2</sup> 600min >10 mcd/m <sup>2</sup>

Afterglow intensity(to 0.32mcd/m2): >14000min under norm DIN67 510

#### LUMINANCE DATA

Time	10"	1'	2'	3'	4'	5'	10'	15'	20'	30'	40'	50'	60'	90'	120'	180'	300'	600'
mcd/m <sup>2</sup>	21080	8764	5319	3843	3009	2475	1268	860.4	625.8	389.9	274.6	208.8	166.1	103.6	73.13	44.82	24.14	10.74

**Lifespan:** >15years under well packing condition.

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## **SAFETY**

1. Toxic: NO.
2. Radioactive: NO.

## **OTHER DATA**

1. Using Condition(recommended): With all colorless, transparent medium such as paint, coating, resin, etc.
2. Storage Condition: In cool, dry and ventilated place, with temperature -50~60°C
3. Packing: 25kgs /iron pail lined with plastic bags.  
G.W.: 26.6kgs, Dim: D31 x H34cm  
20'Container FCL Q'ty: 11250kgs(palletized)
4. Norm Complied: EN71-3, RoHS, DGM.
5. Norm MEET: PSPA Class-G, JIS-Z9107 JD.  
IMO A.752(18), ISO 23601, UL924,  
ASTM E2030/E2072/E2073,  
ATPA SS-PS-002-98/SS-PS-004-99,  
BS 5499-1 2002, NYC Law 26

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